



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examination 2022

(Under CBCS Pattern)

Semester - II

Subject: COMPUTER SCIENCE

Paper: C 3 - T

(Programming in Java)

Full Marks : 40

Time : 2 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Group - A

Answer any *four* questions.

5×4=20

1. What is object oriented programming (OOP)? Write down the characteristics of OOP. 2+3
2. Describe the function data abstraction and encapsulation. Give example. 5
3. What is class? What is constructor? How do we invoke a constructor, discuss with suitable example. 2+1+2
4. What are the functions of these String methods : concat(), toLowerCase(), length(). 5
5. What is vector in java? What is an interface? Discuss with suitable example. 1+2+2
6. How do we design a package in java? 5

P.T.O.

Group - B

Answer any *two* questions.

10×2=20

1. What is byte code? What is inheritance? Discuss with suitable example. What is wrapper class? 2+5+3
2. What is multithreading? How java programming differ from C++? Discuss the lifecycle of Applets. 2+3+5
3. What do you mean by exception in java? What is an applet? How do applet different from application program? Discuss the bitwise and conditional operator. 3+2+3+2
4. (a) Compare and contrast overloading and overriding method.
(b) Write down the life cycle of a thread. Briefly explain. 5+5

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